OIPE

RAW SEQUENCE LISTING   DATE: 11/16/2001
PATENT APPLICATION: **US/09/915,543**   TIME: 08:29:01

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I915543.raw**   # ENTERED

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 3 <110> APPLICANT: BASLER, Konrad
 4        BRUNNER, Erich
 5        FROESCH, Barbara
 6        KRAMPS, Thomas
 7        PETER, Oliver
 9 <120> TITLE OF INVENTION: ESSENTIAL DOWNSTREAM COMPONENT OF THE WINGLESS SIGNALING
PATHWAY AND
10        THERAPEUTIC AND DIAGNOSTIC APPLICATIONS BASED THEREON
12 <130> FILE REFERENCE: Q60361
14 <140> CURRENT APPLICATION NUMBER: 09/915,543
15 <141> CURRENT FILING DATE: 2001-07-27
17 <150> PRIOR APPLICATION NUMBER: 60/221,502
18 <151> PRIOR FILING DATE: 2000-07-28
20 <160> NUMBER OF SEQ ID NOS: 22
22 <170> SOFTWARE: PatentIn version 3.1
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25 <211> LENGTH: 6909
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70 ttagcttaat acgatgctcc gaagtgttat tgcatttgca catatacata aaattgtgac    180
72 atagaatagg agaattccac atacaaatac aaaaatacaa aatcctccag taaaatttaa    240
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 78 agcaataaaa cgatggattt taattgctac ttgagcaatt agccacacaa gggatcttgg   420
 80 gaaggtcgat ttgaaggaat tcgatttcta ggatgctctc gacaaca atg ccc cgc     476
 81                                                     Met Pro Arg
 82                                                      1
 84 agt cca acc caa caa cag ccg caa cca aac tcc gat gcc tcc tca aca     524
 85 Ser Pro Thr Gln Gln Gln Pro Gln Pro Asn Ser Asp Ala Ser Ser Thr
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 88 agt gca tct gga tca aat cct gga gca gcg atc gga aat ggg gac tcg     572
 89 Ser Ala Ser Gly Ser Asn Pro Gly Ala Ala Ile Gly Asn Gly Asp Ser
 90 20                  25                  30                  35
 92 gcg gcg agc aga agt tct ccg aag acc ctt aat agc gaa ccc ttt tct     620
 93 Ala Ala Ser Arg Ser Ser Pro Lys Thr Leu Asn Ser Glu Pro Phe Ser
 94                 40                  45                  50
 96 act ttg tcg ccg ggtaagactt gtattgattt ctctttgtcc ggaattataa        672
 97 Thr Leu Ser Pro
 98                 55
100 caactttctg tgtttcca gat caa ata aaa ttg acg cca gaa gaa ggc act     723
101                    Asp Gln Ile Lys Leu Thr Pro Glu Glu Gly Thr
102                                   60                  65
104 gag aaa agc gga cta tca act agt gat aaa gct gcc act gga gga gcc     771
105 Glu Lys Ser Gly Leu Ser Thr Ser Asp Lys Ala Ala Thr Gly Gly Ala
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112 aac tct acg agc aca atc aac tcg tgc cta gtc gct tct cca caa aac     867
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114     100                 105                 110
116 tcc agt gaa cac tcg aat agc agc aat gtg tct gct aca gtg ggc ctt     915
117 Ser Ser Glu His Ser Asn Ser Ser Asn Val Ser Ala Thr Val Gly Leu
118 115                 120                 125                 130
120 act cag atg gta gat tgt gac gag caa tcg aag aaa aac aaa tgt agt     963
121 Thr Gln Met Val Asp Cys Asp Glu Gln Ser Lys Lys Asn Lys Cys Ser
122                 135                 140                 145
124 gtg aag gac gag gaa gct ggtaagactg ccctacaaat ggtttaaaat          1011
125 Val Lys Asp Glu Glu Ala
126             150
128 tttaaaatgt attggcgttc acctttgtta atcatttaat tgtttttttt ttgctatact  1071
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140 gcagatgcta ctagacgcgg tgtaaaagct aattttttatt taaaagctgt cctaatattc  1431
142 cataaccatt aatgtcccat ttca gaa ata agt tct aat aaa gca aaa ggt      1482
143                          Glu Ile Ser Ser Asn Lys Ala Lys Gly
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146 caa gca gct ggt ggc ggc tgc gaa aca ggt tct aca tcc agt ttg act    1530
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150 gtc aag gaa gaa ccc acc gat gtc tta ggc agt tta gta aat atg aaa    1578
151 Val Lys Glu Glu Pro Thr Asp Val Leu Gly Ser Leu Val Asn Met Lys
152         180             185             190
154 aaa gaa gaa aga gaa aat cat tcg cca acg atg tcc cct gtt ggt ttt    1626
155 Lys Glu Glu Arg Glu Asn His Ser Pro Thr Met Ser Pro Val Gly Phe
156         195             200             205
158 ggt tca att ggt aat gca cag gac aac tcc gct aca ccg ggtaagtttt    1675
159 Gly Ser Ile Gly Asn Ala Gln Asp Asn Ser Ala Thr Pro
160 210             215             220
162 aagagatcca tataaagcaa ataacaagaa ttaatgtcag ttaccaattt tatttgatag    1735
164 tcaaagaact actatagcga tatctcctgc cttttaattt tattttaatt aggaaatacg    1795
166 aatatttcta atttgtaaaa taaaattgat taattaacta gaatttaaaa acctttttgaa    1855
168 ttaggacata cccttccaaa aatcagtaat cattgggaac gagagtgtgg tcccgaagga    1915
170 gactactata aaacctttttg agctatctga tactgcacgc tactaaaaat gattagttta    1975
172 ggaaaatggg tgtaattttg taggaagttt tcattttaga agaaatgtga ttattttatt    2035
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178 aattttgatt aaatgagaaa ttatcacact tcagttaaaa tgtttaattc gattaaggtc    2215
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182 ctggcgcgct tcaccactac gtggagttcc gcccgcagtg atttatatag atgatttacg    2335
184 agttatttaa ttttttatgg tgtattttaa taaatatctt atttattcat tttacata      2393
186 gtt aaa att gaa aga att tca aac gac agt acc acg gaa aaa aaa gga     2441
187 Val Lys Ile Glu Arg Ile Ser Asn Asp Ser Thr Thr Glu Lys Lys Gly
188         225             230             235
190 tcg tcc ttg aca atg aat aat gac gaa atg agc atg gaa ggc tgc aat    2489
191 Ser Ser Leu Thr Met Asn Asn Asp Glu Met Ser Met Glu Gly Cys Asn
192         240             245             250
194 cag ttg aat ccc gat ttt atc aat gaa tct tta aat aat cct gca att    2537
195 Gln Leu Asn Pro Asp Phe Ile Asn Glu Ser Leu Asn Asn Pro Ala Ile
196 255             260             265             270
198 tcg agc ata tta gta agc gga gta gga cca ata ccc gga atc gga gtt    2585
199 Ser Ser Ile Leu Val Ser Gly Val Gly Pro Ile Pro Gly Ile Gly Val
200             275             280             285
202 gga gcg ggg acg gga aat tta ttg act gcc aac gcc aat gga atc tcc    2633
203 Gly Ala Gly Thr Gly Asn Leu Leu Thr Ala Asn Ala Asn Gly Ile Ser
204             290             295             300
206 tcg ggt agc agt aat tgt ttg gat tac atg caa cag caa aat cac ata    2681
207 Ser Gly Ser Ser Asn Cys Leu Asp Tyr Met Gln Gln Gln Asn His Ile
208             305             310             315
210 ttc gtg ttt tca act cag ctg gcc aac aaa ggg gcc gaa tca gtt tta    2729
211 Phe Val Phe Ser Thr Gln Leu Ala Asn Lys Gly Ala Glu Ser Val Leu
212         320             325             330
214 agc ggt caa ttt caa act att att gcg tat cac tgc act cag cct gct    2777
215 Ser Gly Gln Phe Gln Thr Ile Ile Ala Tyr His Cys Thr Gln Pro Ala
216 335             340             345             350
218 aca aaa agc ttc ctg gaa gac ttt ttt atg aaa aac cct tta aag att    2825
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226 ggg cag gtt gga cta act cct cct aat cct gta gcc aaa ata aca caa   2921
227 Gly Gln Val Gly Leu Thr Pro Pro Asn Pro Val Ala Lys Ile Thr Gln
228             385                 390                 395
230 cag cag cca cat aca aag acc gta ggc cta ttg aaa ccc caa ttc aat   2969
231 Gln Gln Pro His Thr Lys Thr Val Gly Leu Leu Lys Pro Gln Phe Asn
232     400                 405                 410
234 caa cat gaa aac agc aaa cgt agt act gta agc gcg cct agc aac tct   3017
235 Gln His Glu Asn Ser Lys Arg Ser Thr Val Ser Ala Pro Ser Asn Ser
236 415                 420                 425                 430
238 ttt gtc gac cag tct gat cct atg ggc aac gaa act gaa ttg atg tgc   3065
239 Phe Val Asp Gln Ser Asp Pro Met Gly Asn Glu Thr Glu Leu Met Cys
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242 tgg gaa ggc gga tcc tca aac acc agt agg tct gga caa aac tca cga   3113
243 Trp Glu Gly Gly Ser Ser Asn Thr Ser Arg Ser Gly Gln Asn Ser Arg
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250 ata ctg gaa gca gct ggc gtt gat ttg gga cag gtc aca aaa gga agc   3209
251 Ile Leu Glu Ala Ala Gly Val Asp Leu Gly Gln Val Thr Lys Gly Ser
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254 gat cct ggc ctg aca act gaa aac aac att gta tca ctg caa gga gtt   3257
255 Asp Pro Gly Leu Thr Thr Glu Asn Asn Ile Val Ser Leu Gln Gly Val
256 495                 500                 505                 510
258 aag gtt cca gac gaa aac ctt aca cca caa cag cgg caa cat cgg gaa   3305
259 Lys Val Pro Asp Glu Asn Leu Thr Pro Gln Gln Arg Gln His Arg Glu
260             515                 520                 525
262 gaa cag ttg gca aaa ata aaa aaa atg aat caa ttt ctt ttt cct gaa   3353
263 Glu Gln Leu Ala Lys Ile Lys Lys Met Asn Gln Phe Leu Phe Pro Glu
264             530                 535                 540
266 aat gag aat tca gta gga gct aat gta agc tca cag ata aca aaa att   3401
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268             545                 550                 555
270 cca gga gat tta atg atg ggg atg tcg ggt ggc gga ggc gga tct att   3449
271 Pro Gly Asp Leu Met Met Gly Met Ser Gly Gly Gly Gly Gly Ser Ile
272     560                 565                 570
274 ata aat ccg acg atg cga caa ctg cat atg cca ggt aac gcc aaa tcg   3497
275 Ile Asn Pro Thr Met Arg Gln Leu His Met Pro Gly Asn Ala Lys Ser
276 575                 580                 585                 590
278 gag ctc tta tcg gcg aca agt tca gga ctt tcg gaa gat gta atg cat   3545
279 Glu Leu Leu Ser Ala Thr Ser Ser Gly Leu Ser Glu Asp Val Met His
280             595                 600                 605
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283 Pro Gly Asp Val Ile Ser Asp Met Gly Ala Val Ile Gly Cys Asn Asn
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292     640                645                650
294 ggc gcc ccg aat ggc aat atg atg gga agc tct acg gat atg cta gcc     3737
295 Gly Ala Pro Asn Gly Asn Met Met Gly Ser Ser Thr Asp Met Leu Ala
296 655                660                665                670
298 tcg ttt ggc aac aca agc tgc aac gtc atc gga acg gcc cca gat atg     3785
299 Ser Phe Gly Asn Thr Ser Cys Asn Val Ile Gly Thr Ala Pro Asp Met
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319 Gln Val Arg Pro Leu Gln Gly Pro Pro Pro Pro Tyr His Ser Ile Gln
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332     800                805                810
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335 Gly Ser Val Pro Gln Ala Asn Thr Ser Thr Val Gln Ala Gly Thr Thr
336 815                820                825                830
338 aca gtg ctc tca gca aac aag aac tgt ttt cag gca gac acc cca tcg     4265
339 Thr Val Leu Ser Ala Asn Lys Asn Cys Phe Gln Ala Asp Thr Pro Ser
340             835                840                845
342 ccg tca aat caa aat cgt agt aga aat acc gga tcg tca agc gtt ctt     4313
343 Pro Ser Asn Gln Asn Arg Ser Arg Asn Thr Gly Ser Ser Ser Val Leu
344         850                855                860
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VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/915,543**

DATE: 11/16/2001
TIME: 08:29:02

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I915543.raw**

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